

**SOLID HIGHPOLYMER TYPE FUEL CELL**

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**Abstract of JP2000268828**

**PROBLEM TO BE SOLVED:** To provide a fuel cell giving a stable output for a long period of time using an electrode excellent in the water repellency and anti-corrosiveness. **SOLUTION:** This solid highpolymer type fuel cell has an electrolyte consisting of an ion exchange resin and a gas diffusion electrode including an electrode catalyst of such a structure that platinum or its alloy is carried by a carbon carrier whose mean lattice plane spacing  $d_{002}$  of [002] plane is 0.337-0.348 nm, size  $L_c(002)$  of crystallite is 3-18 nm, and specific surface area is 70-800 m<sup>2</sup>/g. The carbon carrier is preferably formed by subjecting carbon black or activated carbon to a heat treatment at 1800-2500 deg.C.

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